

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 54-76 are canceled by this amendment.

Please amend the claims as follows:

1-34. (Canceled)

35. (Currently Amended) An apparatus for dispensing materials to vegetation, the apparatus comprising

a conduit having ~~an interior and exterior, wherein the conduit interior includes a~~ channel;

an outlet coupled to the channel for conveying a substance from the channel to the vegetation; and

a plurality of sensors fixedly coupled to the conduit, wherein the sensors include sensors of first and second types, wherein the first type of sensor senses a first condition related to growth of the vegetation and wherein the second type of sensor senses a second condition related to growth of the vegetation, wherein the sensors are fixedly coupled to the conduit at intervals so that each sensor corresponds with a group of one or more plants in the vegetation when the conduit is deployed, wherein a signal from a particular sensor is used to control conveyance of the substance to the particular sensor's corresponding group of one or more plants exterior, for sensing a condition external to the conduit interior related to growth of the vegetation.

36. (Original) The apparatus of claim 35, wherein one or more sensors is associated with a particular outlet, the apparatus further comprising

a flow control coupled to the particular outlet for regulating an amount of the substance conveyed to the vegetation; and

a control system coupled to the flow control and to the one or more sensors associated with the particular outlet, for sending a signal to regulate an amount of the substance conveyed to the vegetation in response to a signal from the one or more sensors.

37. (Original) The apparatus of claim 36, wherein the control system includes a microprocessor.

38. (Original) The apparatus of claim 35, wherein the sensor includes an optical sensor.

39. (Original) The apparatus of claim 38, wherein the sensor includes a photodetector.

40. (Original) The apparatus of claim 35, wherein the sensor includes a humidity sensor.

41. (Original) The apparatus of claim 35, wherein the sensor includes a leaf wetness sensor.

42. (Original) The apparatus of claim 35, wherein the sensor includes a temperature sensor.

43. (Original) The apparatus of claim 35, wherein the sensor includes an insect sensor.

44. (Original) The apparatus of claim 43, wherein the sensor includes a protein sensor.

45. (Original) The apparatus of claim 43, wherein the sensor includes a DNA sensor.

46. (Original) The apparatus of claim 43, wherein the sensor includes a sticky trap.

47. (Original) The apparatus of claim 43, wherein the sensor includes a pheromone detector.

48. (Original) The apparatus of claim 35, wherein the sensor includes a temperature sensor.

49. (Original) The apparatus of claim 35, wherein the sensor includes an infrared sensor.

50. (Original) The apparatus of claim 35, wherein the sensor includes a sugar accumulation sensor.

51. (Original) The apparatus of claim 35, wherein the sensor includes a pH probe.

52. (Original) The apparatus of claim 35, wherein the sensor includes a soluble solids sensor.

53. (Original) The apparatus of claim 35, wherein the sensor includes a sugar accumulation sensor.

54 - 76. (Canceled)

77. (Currently Amended) [[A]] The method of claim 79 for dispensing a material to regularly spaced plants, the method using a conduit having sensors placed on an exterior of the conduit at regular spacing, the method further comprising:

placing the conduit in proximity to [[the]] regularly spaced plants so that the sensors' regular spacing is in substantial alignment with the plants' regular spacing.

78. (Previously Presented) The method of claim 77, wherein the plants include grape vines.

79. (Currently Amended) The method of claim 35, wherein a group of the plurality of sensors is ~~coupled to the conduit exterior and~~ spaced at regular intervals.

80. (New) The method of claim 35, wherein a group includes one or more plants.